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Selection of Ion Sources for Modernization of the LANSCE Front End

Tuesday 12 August 2025 16:00 (2 hours)

We discuss selection of ion sources for the LANSCE Accelerator Modernization Project (LAMP). LANSCE currently operates both an H+ and H– ion source, providing beams to five independent user facilities. The H+ source is a duoplasmatron that provides protons for the Isotope Production Facility (IPF). The H- source is a surface-converter ion source configured with two tungsten hot filaments that provides beam to the other four LANSCE user facilities. To meet beam delivery requirements, the LAMP conceptual design has one H+ ion source and two H– ion sources. The upgraded sources in the LAMP conceptual design are two SNS (Spallation Neutron Source) style RF H– ion sources and an upgraded duoplasmatron for the H+ source.

Please consider my poster for contributed oral presentation

No

Would you like to submit this poster in student poster session on Sunday (August 10th)

No

Footnotes

Funding Agency

I have read and accept the Privacy Policy Statement

Yes

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